

## HD6 SERIES

### HIGH SPEED PTZ DOME SYSTEMS

The HD6 Series offers the highest performing PTZ domes on the market. With its lightning speed and fluid pan-and-tilt movements, any operator will agree the HD6 is the ultimate dome for the professional user. Rigorous applications are no problem for the HD6 Series. From standard indoor installations to extreme element exposure of the outdoors, the HD6 stands tough. Performance and design drive the innovation behind the HD6. While engineered to stand up to the harshest of environmental conditions, it is also engineered to blend into critical architectural requirements.

#### Market Opportunities

The HD6 Series of cameras provides solutions for an unlimited number of security and surveillance applications. Markets with stringent functional requirements, such as gaming, retail, industrial, traffic, education and correctional can look to the HD6 Series for their PTZ dome system needs. Its comprehensive feature set and durability make it an obvious choice for a wide variety of markets. Six language support (English, French, German, Italian, Polish and Spanish) and CE approval makes the HD6 a truly global PTZ system for any application.

#### Features

- High-Resolution Colour or True Day/Night Camera for extreme low-light performance
- Slow-speed shutter (down to 1/4 sec) provides low-light colour performance down to 0.15 lux - Selectable
- 360° continuous pan rotation (proportional to zoom)
- Variable pan speed 1/10° - 400° per second
- 3, 2-minute PTZ Patterns (Auto Learn Function)
- Up to 98 programmable PreShot (pan, tilt, zoom) positions with 24-character on-screen labels
- PreShot recall speed is approx. 1/2 second
- 10 programmable VectorScans (video guard tours)
- 16 sector IDs with 24-character on-screen displays
- 10 privacy zones
- Auto data polarisation
- 4 on-board alarm inputs
- Auto-pivot tracking
- Language selection (English, French, German, Italian, Polish or Spanish) for programming menus & on-screen displays
- Protocols: Diamond (Standard), Maxpro, VCL, Pelco P & D, Bosch Bi-Phase
- Auto Homing feature can also activate Tours and Patterns with Dwell time up to 99 minutes
- Video via Twisted Pair and up-the-coax communication and video options
- "Flashback" recalls last PreShot or manual position
- 24 VAC line-lock with 180° phase adjustment

Indoor Pendant



Indoor Drop Ceiling



Weather



Rugged Dome



Pressurised



## HD6 SERIES

### SPECIFICATIONS

CAMERA	HD6A	HD6B	HD6D	HD6E
<b>Image Sensor</b>	1/4 type EXview HAD CCD	1/4 type EXview HAD CCD	1/4" EXview HAD CCD	1/4" EXview HAD CCD
<b>Lens</b>	18X optical zoom, f=4.1 mm (wide) to 73.8 mm (tele), F1.4 to F3.0	18X optical zoom, f=4.1 mm (wide) to 73.8 mm (tele), F1.4 to F3.0	23X optical zoom, f=3.8 (wide) to 87.4mm (tele), F1.6 to F3.8	25X optical zoom, f=3.8 (wide) to 95mm (tele), F1.6 to F3.7
<b>Horizontal Resolution</b>	> 470 TVL (NTSC) > 460 TVL (PAL)	> 470 TVL (NTSC) > 460 TVL (PAL)	> 470 TVL (NTSC) > 460 TVL (PAL)	> 470 TVL (NTSC) > 460 TVL (PAL)
<b>Digital Zoom</b>	12X (216X total zoom)	12X (216X total zoom)	4X (92X total zoom)	4X (100x total zoom)
<b>Angle of View (H)</b>	48 degrees (wide end) to 2.8 degrees (tele end)	48 degrees (wide end) to 2.8 degrees (tele end)	56.2 degrees (wide end) to 2.4 degrees (tele end)	56.2 degrees (wide end) to 2.2 degrees (tele end)
<b>Sync System</b>	Internal/External (V-Lock)	Internal/External (V-Lock)	Internal/VD pulse lock (auto detect)	Internal/VD pulse lock (auto detect)
<b>Minimum Illumination</b>	0.7lux (typical) (50 IRE) 0.05lux (slow shutter mode at 1/4s)	0.7lux (typical) (50 IRE) 0.05lux (slow shutter mode at 1/4s) 0.01lux (NightShot at 1/4s)	1.0lux (30 IRE, AGC 34dB )	0.8lux (30 IRE) 0.05lux (IR filter OFF) 0.008lux (IR filter ON, 128 fields)
<b>S/N Ratio</b>	> 50dB	> 50dB	> 49dB	> 50dB (AGC Off)
<b>Electronic Shutter</b>	1/1 to 1/10,000 sec	1/1 to 1/10,000 sec	1/60 (50) to 1/10,000 sec (28 steps)	1/60 (50) to 1/10,000 sec
<b>White Balance</b>	Auto, ATW, Indoor, Outdoor, Manual	Auto, ATW, Indoor, Outdoor, Manual	Auto, Indoor, Outdoor, Manual	Auto, Indoor, Outdoor, Manual
<b>Gain</b>	Auto/Manual (-3 to 28 dB, 2 dB steps)	Auto/Manual (0 to 28 dB, 2 dB steps)	Auto/Manual (8dB to 38dB adjustable)	Auto/Manual (8dB to 38dB adjustable)
<b>AE Control</b>	Auto, Manual, Exposure level, Back-light compensation	Auto, Manual, Exposure level, Back-light compensation	Auto, Manual, Exposure level, Back-light compensation	Auto, Manual, Exposure level, Back-light compensation
<b>Exposure Level</b>	-10.5 to +10.5 dB (1.5dB steps)	-10.5 to +10.5 dB (1.5dB steps)	Adjustable through 100 levels	Adjustable through 100 levels
<b>Back-Light Compensation</b>	On/Off	On/Off	On/Off/Auto	On/Off/Auto
<b>Focusing System</b>	Auto/Manual	Auto/Manual	Auto/Manual	Auto/Manual

**NOTE:** Honeywell reserves the right, without notification, to make changes in product design or specifications.

**HD6A** High resolution colour camera with an 18X optical zoom (48° wide angle and 2.8° telephoto). The HD6A is compatible with the entire line of HD6 dome housings.

**HD6B** High resolution Day/Night camera with an 18X optical zoom (48° wide angle and 2.8° telephoto). The HD6B is compatible with the entire line of HD6 dome housings.

**HD6D** High resolution colour camera with an 23X optical zoom (56.2° wide angle and 2.4° telephoto). The HD6D is compatible with the entire line of HD6 dome housings.

**HD6E** High resolution Day/Night camera with an 25X optical zoom (56.2° wide angle and 2.2° telephoto). The HD6E is compatible with the entire line of HD6 dome housings.

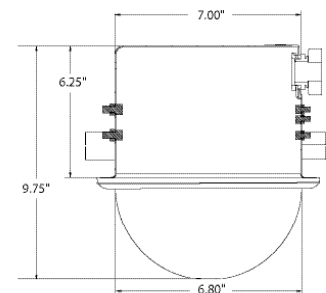
## HD6 SERIES

### SPECIFICATIONS

Operational		Operational Cont.	
Angular Travel	Horizontal: 360° continuous Tilt: 2° above horizontal to 90° down	Protocol Translation	Diamond, Maxpro, VCL and Pelco "P" & "D", Bosch Bi-Phase
Speed (Manual Mode)	Pan: variable from 0.10° to 400°/sec. Tilt: variable from 0.10° to 200°/sec.	Auto-Homing	Activates Vectorscan tours and "Auto Learn" patterns. Dwell time is programmable up to 99 minutes
Speed to Preshot	400°/sec. (<0.5 sec.)	Flashback	Recalls the last PreShot position observed whether in manual, Vectorscan or Auto Learn (pattern) mode. PreShots can be toggled between last two
PreShot Accuracy	<0.10° accuracy	Digital Zoom label	Provides on-screen identification of digital zoom setting (ie 2x, 4x, 12x). User can select if On or Off.
PreShots Per Dome	Pan/tilt/zoom = 100	24 VAC Line-Lock	Unit is 24 VAC line locked with 180° phase adjust.
Video Tours (VectorScans)	10 per dome	Freeze Frame of Video	When activated, the unit freezes the video signal for assessment or recording
PreShots Per Tour	64	Receiver/Driver	Digital – on board Communication: RS-485 Numeric rotary switch addressability Battery-backed memory
Still Shot™ Feature	PreShot freeze-frame of video during tour		
Patterns (Learn mode)	3 2-minute programmable PTZ tours		
Sector Identification	16 independent sectors (zones)		
Privacy Zones	10 programmable zones that blank the video when entered for privacy issues		
Installation in Dome	Simple electrical quick disconnect and mechanical slide mount		
Alarm Processing	4 on-board alarm inputs for dry contacts		

### Indoor Drop Ceiling

Electrical		Environmental	
Input Voltage	24 VAC @ 50/60Hz	Operating Temperature	32°F to 104°F (0°C to 40°C)
Input Tolerance	24 VAC ± 20%	Regulations	
Power Consumption	22 W @ 24 VAC	Emissions	FCC: Part 15 Class A CE: EN50081-1
Mechanical		Immunity	CE: EN50082-1
Dimensions	Housing: 4.81" H x 6.80" Dia Lower Dome: 6.75" Dia Trim Ring: 6.875" Dia		
Weight	5.5 lbs. (2.5 kg)		
Construction	Top, inner: Steel Bottom: Vacuum formed, optically graded acrylic		



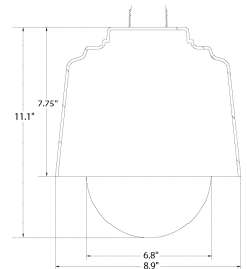
## HD6 SERIES

### SPECIFICATIONS

#### Indoor Pendant

Electrical	
Input Voltage	24 VAC @ 50/60Hz
Input Tolerance	24 VAC $\pm$ 20%
Power Consumption	22 W @ 24 VAC
Mechanical	
Dimensions	Housing: 7.25" H x 8.98" Dia Lower Dome: 6.75" Dia Trim Ring: 6.875" Dia
Weight	6.6 lbs.
Construction	Top, inner: Steel Bottom: Vacuum formed, optically graded acrylic

Environmental	
Operating Temperature	32°F to 104°F (0°C to 40°)
Regulations	
Emissions	FCC: Part 15 Class A CE: EN50081-1
Immunity	CE: EN50082-1

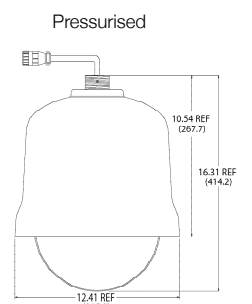
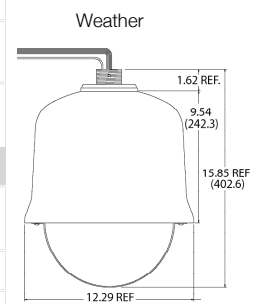


#### Weather

Electrical	
Input Voltage	PTZ: 24 VAC @ 50/60Hz Heater/Blower 24 VAC @ 50/60Hz
Input Tolerance	24 VAC $\pm$ 20%
Power Consumption	PTZ: 22 W @ 24 VAC Heater/Blower 96 W @ 24 VAC
Mechanical	
Dimensions	Housing: 15.85"H x 12.29" Dia Lower Dome: 9.50" Dia
Weight	15 lbs. (6.8 kg)
Construction	Top, inner: Steel Top, outer: White reflective acrylic Bottom: Vacuum formed, optically graded acrylic
Environmental	
Operating Temperature	-50°F to 122°F (-45°C to 50°C) (maintained by heater/blower)
Regulations	
Emissions	FCC: Part 15 Class A CE: EN50081-1
Immunity	CE: EN50082-1

#### Pressurised

Electrical	
Input Voltage	PTZ: 24 VAC @ 50/60Hz Heater/Blower 24 VAC @ 50/60Hz
Input Tolerance	24 VAC $\pm$ 20%
Power Consumption	PTZ: 22 W @ 24 VAC Heater/Blower 96 W @ 24 VAC
Mechanical	
Dimensions	Housing: 16.31"H x 12.41" Dia Lower Dome: 9.50" Dia
Weight	17 lbs. (7.7 kg)
Construction	Top, inner: Steel Top, outer: White reflective acrylic Bottom: Vacuum formed, optically graded acrylic Sealing flange: 1/2" thick aluminum casting with O-ring seals Bottom dome: compresses O-rings
Interior Pressurization	Dual Schraeder Valves for purging and pressurisation. Single Over Pressure valve – factory set @ 7-10 lbs. Recommended: Dry nitrogen gas for pressurisation only. Optional: Recharge kit model AVN001NRK
Environmental	
Operating Temperature	-50°F to 122°F (-45°C to 50°C) (maintained by heater/blower)
Regulations	
Emissions	FCC: Part 15 Class A CE: EN50081-1
Immunity	CE: EN50082-1



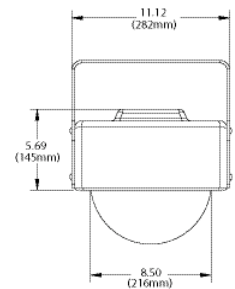
## HD6 SERIES

### SPECIFICATIONS

#### Rugged

Electrical	
Input Voltage	24 VAC @ 50/60Hz
Input Tolerance	24 VAC $\pm$ 20%
Power Consumption	22 W @ 24 VAC
Heater/Blower (Optional):	
Input Voltage	24 VAC
Output	96 Watts
Environmental	
Operating Temperature	-50°F to 122°F (-45°C to 50°C) with optional heater/blower

Mechanical	
Dimensions (Height)	12.89"H x 11.12"W x 11.12"D
Dome Size	6.80" dia.
Weight	14.75 lbs. (6.69 kg)
Dome Construction	Top: 0.187" thick reinforced aluminium alloy casting
	Bottom: Vacuum formed, 0.160" thick optically-graded acrylic
Regulatory	
Emissions	FCC: Part 15 Class A CE: EN50081-1
Immunity	CE: EN50082-1



#### Ordering

Components	
Dome Scan	
HDSA00P1	Scan 18X PAL
HDSB00P1	Scan 18X TDN PAL
HDSD00P1	Scan 23X PAL
HDSE00P1	Scan 25X TDN PAL
Dome Housing (Standard RS485 Interface Board*)	
HDT0D000	Drop Ceiling
HDT0P000	Pendant
HDT0R000	Rugged
HDT0W000	Weather
HDT0E000	Pressurised
*Change last digit to 3 for CAT5/UTC Interface	

Lower Dome			
	Type	Tint colour	Trim Colour
HDB0DH00	Drop/Pendant	Smoked	White
HDB0DJ00	Drop/Pendant	Smoked	Black
HDB0D400	Drop/Pendant	Clear	Black
HDB0D500	Drop/Pendant	Clear	White
HDB0DA00	Drop/Pendant	Gold 1/2	Black
HDB0DB00	Drop/Pendant	Gold 1/2	White
KDB0DE00	Drop/Pendant	Chrome 1/2	Black
KDB0DF00	Drop/Pendant	Chrome 1/2	White
KDB0R400	Rugged	Clear	—
KDB0R200	Rugged	Smoked	—
KDB0W200	Weather	Smoked	—
KDB0W400	Weather	Clear	—

# HD6 SERIES

## ORDERING

Accessories	
Compatible Devices	
HJZTPX	PTZ Dome, DVR and Mux Telemetry Controller
HEGS5BLX	Standalone joystick and keyboard for HD6
HDCD8TPX	Code distribution unit, RS232 to RS485 converter
Power Supplies	
HPTV2401D	240V/24VAC 1A output, for internal use on HD6
HPTV2402DWP	230/24VAC 3A (75VA) total, 1x1A, 1x2A outputs for external HD6 and heater, mains indicator power on/off, fuse block, data, BNC in/out, lightning protection, push outs, 20,25,32,40mm
HPTV2408-1D	230V/24V AC 8 individually fused 1A outputs for internal use on HD6

Accessories	
Camera Brackets	
DPM-15	HD6 Ceiling mount bracket for external applications, 350mm
UPMB1	HD6 Universal ceiling mount bracket for internal applications, 300mm black
DWM-19/S	HD6 Wall mount bracket for external applications, 340mm with support arm
MDW1210W	HD6 Wall mount bracket for external applications without support arm
CMA18	HD6 Corner mount adapter for DWM-19S
PMA18/BS	HD6 Pole mount adapter for DWM-19S
PMA7W	HD6 Pole mount adapter for MDW1210W

Ordering	
<p><b>HOW TO ORDER</b></p> <p>Example:</p> <p><b>HD6BD1P1 =</b>  <b>18XTDN/In Ceiling/Smoked/Black/PAL/RS485</b></p>	<p>The diagram illustrates the components of the model number HD6BD1P1:</p> <ul style="list-style-type: none"> <li><b>Series:</b> HD6</li> <li><b>Camera:</b> B <ul style="list-style-type: none"> <li>A = 18X Colour</li> <li>B = 18X TDN</li> <li>D = 23X Colour</li> <li>E = 25X TDN</li> </ul> </li> <li><b>Housing:</b> D <ul style="list-style-type: none"> <li>D = In Ceiling</li> <li>P = Pendant</li> <li>W = Weather</li> <li>E = Environmental (Pressurized)</li> <li>R = Rugged</li> </ul> </li> <li><b>Dome/Trim Ring:</b> 1 <ul style="list-style-type: none"> <li>Indoor <ul style="list-style-type: none"> <li>1 = Smoked/Black</li> <li>2 = Smoked/White</li> <li>4 = Clear/Black</li> <li>5 = Clear/White</li> </ul> </li> <li>Outdoor <ul style="list-style-type: none"> <li>1 = Smoked</li> <li>4 = Clear</li> </ul> </li> </ul> </li> <li><b>Format:</b> P <ul style="list-style-type: none"> <li>N = NTSC</li> <li>P = PAL</li> </ul> </li> <li><b>Interface:</b> 1 <ul style="list-style-type: none"> <li>1 = RS-485</li> <li>4 = CAT5 (UTP)</li> <li>F = RS485 w/Fan</li> <li>H = RS485 w/ Heater/Blower</li> <li>J = CAT5 w/ Heater/Blower</li> </ul> </li> </ul>

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